

End-User Access to Big Data Using Ontologies

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- 1 Modeling information through ontologies [2 hours]
 - 1 Data and information modeling
 - 2 Ontology languages
 - 3 Logics-based approach to conceptual modeling

- 2 Querying data and knowledge [1 hour]
 - 1 Querying databases and ontologies
 - 2 Query answering in Description Logics

- 3 Ontology based data access [3 hours]
 - 1 The *DL-Lite* family of tractable Description Logics
 - 2 Reasoning in *DL-Lite*
 - 3 Linking ontologies to relational data
 - 4 Conclusions and further work